

Woodward 2001-0246

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IN THE UNITED STATES
PATENT AND TRADEMARK OFFICE

Patent Application

Inventor(s)	Sheryl Leigh Woodward	Case Name	Woodward 2001-0246
Filing Date	1/24/2002	Serial No.	10/056,386
Examiner	Christina Y. Leung	Group Art Unit	2633
Title	System and Method for Monitoring and Controlling Light Propagation in an Optical Transmission System		

COMMISSIONER FOR PATENTS

P.O. Box 1450

Alexandria, VA 22313-1450

SIR:

AMENDMENT

*Do not enter
cc 11-1-05*

In response to an Office action dated July 1, 2005 please amend the above-identified application as follows:

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CE 11-1-05 Woodward 2001-0246

IN THE CLAIMS:

1. (Currently Amended) An add multiplexer comprising:

an input port;

an optical circulator comprising a first port, a second port, and a third port, said first port of said optical circulator coupled to said input port;

an optical monitor mechanism coupled to said third port of said optical circulator;

a wavelength add mechanism having an input port X that is connected to said second port of said optical circulator, an input port Y and an output port Z, which wavelength add mechanism is adapted to direct substantially all of a signal's optical power that is applied to input port Y flowing out of its output port Z, leaving an errant signal fraction of said optical power flowing out of said input port Y and adapted to receive optical signals from said second port and to provide no optical signals to said second port;

a tunable signal source coupled to interposed between said input port Y and wavelength add mechanism, wherein said optical monitor mechanism is coupled to said third port of said optical circulator and to said tunable source thereby providing a feedback path that allows said errant signal fraction of said optical power flowing out of said input port X to influence the signal is applied to input port Y; and

an output port coupled to said output port Z wavelength add mechanism.

2. (Currently Amended) An add multiplexer of claim 1 wherein said optical monitor measures the optical power at said third port 3 of said optical circulator.

3. (Currently Amended) An add multiplexer of claim 1 wherein said optical monitor measures the wavelength of the light at said third port 3 of said optical circulator.

4. (Currently Amended) An add multiplexer of claim 1 wherein said optical monitor measures ~~both the~~ optical power versus wavelength.

5. (Canceled) .